Module 02 – Transportation Modeling

Exploratory Data Analysis

Model Formulation

*Write the formulation of the model into here prior to implementing it in your Excel model. Be explicit with the definition of the decision variables, objective function, and constraints*

Constraint 1: $I$17:$N$17 <= $I$18:$N$18

Constraint 2: $O$13:$O$16 <= $P$13:$P$16

Model Optimized for Profit

*Implement your formulation into Excel and be sure to make it neat. This section should include:*

* *A screenshot of your optimized final model (formatted nicely, of course)*
* *A text explanation of what your model is recommending*



|  |  |
| --- | --- |
| Objective Function | 46.34999 |

Model with Stipulation

*Please copy the tab of your original model before continuing with the next part to avoid messing up your original solution. What happens if you add an additional constraint to the model such that all demand MUST be met. Is the solution still feasible? If not, please explain why.*

*This solution is not feasible. The constraints are too restrictive, making it impossible to satisfy all conditions simultaneously.*